

MATERIAL SAFETY DATA SHEET

for

Oat Fibers¹

According to 91/155/EEC

I	Identification of the substance and company
Product name:	Alba-Fibre[®] (all Oat fiber grades)
Supplier:	Mikro-Technik GmbH & Co. KG Industriestr. 4 Postfach 1640 D-63927 Bürgstadt D-63886 Miltenberg
Emergency telephone number:	+49 (0) 9371 4005-92

II	Composition / information on Ingredients		
Composition	%	Composition	%
Cellulose	Approx. 75 %	Cellulose	Approx. 75 %
Hemi Cellulose	Approx. 25 %	Hemi Cellulose	Approx. 25 %
Lignin	< 0,5 %		

III	Hazards identification
Health	No particular hazards known.

IV	First aid measures
General:	There is no specific first aid needed

V	Fire-fighting measures
Extinguishing media:	Water, foam, extinguishing powder, carbon dioxide, sand
Protective device:	In case of insufficient ventilation wear adequate respiratory protection and an air independent breathing apparatus.

VI	Accidental Release Measures
Precautions:	None
Methods for cleaning up:	Sweep up for reuse and rests to be disposed in a dustbin.

VII	Handling and Storage
Advice on safe handling:	No special precautions at appropriate use. Keep the formation and deposition of dust to a minimum.

Product:	Oat Fiber	Doc Name:	Alba-Fibre Oat MSDS 12-10		
Doc Effective Date:	12/20/10	Doc Revision:	1	Doc Expiration Date:	12/1/12
Date Printed:	12/20/10	Time:	10:30 PM	Page:	1 of 3

Storage conditions:	Store in a dry place and keep in the original container.
Fire & explosion prevention:	Raised dust may form explosive mixtures with air. Hot product generates inflammable smoulder gases, which may form explosive mixtures with air. Danger of spontaneous ignition at temperatures > 210°C. The action of suited ignition sources causes self-progressive smoulder burnings. Precautions against burnings and explosions known from provisions and literature have to be observed.
Pneumatic transport:	Devices to avoid electrostatic charges have to be installed.

VIII Exposure controls / personal protection

Exposure limits:	No exposure limits have been established.
Protective measures:	Not required

IX Physical and chemical properties

Appearance:

- Form:	Fibrous powder
- Colour:	Off white
- Odour	Neutral

Physical properties:

- PH-value:	5 – 7
Bulk density:	50 – 500 g/l
- Solubility in water:	Insoluble

Safety data:

- Self ignition Temperature:	230°C
--Method:	DIN 54370
- Temperature of thermal decomposition:	210°C, formation of burnable smoulder gases

X Stability and reactivity

Chemical stability:	Stable under recommended conditions (section VII), no hazardous decomposition products known.
Conditions to avoid:	Danger of formation of burnable decomposition gases above 210°C.

XI Toxicological information

General:	Non toxic
----------	-----------

XII Ecological information

Physicochemical elimination:	Cellulose is insoluble in water. It may be eliminated out of water by a biotic processes or mechanical action.
Biodegradability:	Purification plant:

The product is not biodegradable under the condition of a purification plant.

Chemical oxygen demand: Ca. 1185 mg O₂/g product

XIII

Disposal considerations

Product: May be taken to waste disposal site or incineration plant with household waste. Non-coated grades may be recycled together with waste paper. Rules of the local authorities must be observed.

Packaging: According to local regulations. (Most probably to be recycled in a waste paper plant.)

XIV

Transport information

All transports: No limitations, no markings necessary

XV

Regulatory information

GefStoffV (Germany) Hazard warning labelling not compulsory.

Others: None

National regulations: None

Water hazard class (Germ)

Others: None

XVI

Other information

This information only concerns the above-mentioned product and does not need to be valid if used with other products or in any process. The information is to our best present knowledge correct and complete and is given in good faith but without warranty. It remains the users own responsibility to make sure that the information is appropriate and complete for his special use of this product.

¹ Manufactured in Germany by MIKRO-TECHNIK GmbH & Co. KG for The Ingredient House, LLC

Product:	Oat Fiber	Doc Name:	Alba-Fibre Oat MSDS 12-10		
Doc Effective Date:	12/20/10	Doc Revision:	1	Doc Expiration Date:	12/1/12
Date Printed:	12/20/10	Time:	10:30 PM	Page:	3 of 3